

Course Type	Course Code	Name of Course	L	T	P	Credit
DP6	MCC 402	Software Engineering Lab	0	0	2	2

Course Objective

Software Engineering is the core course of Computer Science which gives the Idea about Software development process. The practical will impart a knowledge about how to implement the software engineering principals in software development process.

Learning Outcomes

Students will learn about the implementation of various software development process.

Sl. No.	Name of Experiment/Lab		Learning Outcomes
1.	Implementation of COCOMO Model for cost estimation	4	Students will know about the implementation of COCOMO for cost estimation.
2.	Implementation of COCOMO Model for time estimation	4	Students will know about the implementation of COCOMO for schedule estimation.
3.	Implementation of Halstead metric.	2	Students will get the idea about the implementation of Halstead method.
4.	Implementation of CPM.	2	Students will get the idea about the implementation CPM in project planning.
5.	Implementation of PART.	2	Students will get the idea about the implementation PART in project planning.
6.	Preparation of SRS for some defined project.	2	Students will implement the SRS development techniques for some real project.
7.	Development of structural design for some defined project.	2	Students will implement the Structural Design techniques for development of Structure for some real software development project.
8.	Development of object model using UML techniques for some defined project	2	Students will implement the UML design techniques for some real project and they will get an idea for developing UMLS in OOD environment.
9.	Design of Test suits for Black Box Testing.	2	Students will get an idea how to develop test suit using Black Box techniques
10.	Design of Test Suits for White Box Testing.	2	Students will get an idea how to develop test suit using White Box techniques
11.	Lab Exam	2	Practical Examination will be conducted after completion of the experiments and the projects. The marks will be distributed accordingly.

Text Books:

1. Software Engineering: A Practitioner's Approach by R.S. PressMan, McGraw Hill.

Reference Books:

1. Fundamentals of Software Engineering by R. Mall, Prentice Hall of India
2. An Integrated Approach to Software Engineering by P. Jalote, Narosa.